

PATENT ABSTRACTS OF JAPAN

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(71)Applicant : TOKYO OPTICAL CO LTD

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(54) OPTICAL DEVICE

(57)Abstract:

PURPOSE: To make an observation interval of the first and the second air images variable by moving relatively a roof type reflecting member and at least a part of an optical element for constituting the first and the second optical paths, in the direction vertical to the optical axis of the partial optical path.

CONSTITUTION: A titled device is provided with an object placing plate 11 for placing an object to be observed 10, front observing system 20 for observing the front of the object to be observed 10, and a side face observing system 30 for observing the side face of the object to be observed 10. The front observing system 20 is constituted of an illuminating optical system 21 constituted of an illuminating light source 211, condenser lens 212, half mirror 213 and an objective lens 220, observing optical system 22 consisting of an objective lens 220, image interval converting part 221, deflecting prism 222, relay lens 223 and a TV camera 224, and an electric equipment part 23 consisting of a camera controller 230 for controlling the TV camera 224, measurement control part 231 for controlling an image receiving signal sent from this controller 230 and utilizing it for various measurements, and a CRT display device 232 for displaying a receiving image of the TV camera 224, and monitoring an object to be observed, when executing a positioning between two points of the object 10 and checking the accuracy.

